```
============================================================
```
Sequence Listing could not be accepted due to errors.

See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).

Reviewer: Anne Corrigan

Timestamp: [year=2009; month=5; day=28; hr=12; min=33; sec=4; ms=333;]
```
============================================================
```

```
************************************************************
```
Reviewer Comments:

<140> 10/082,973

     2002-02-26

Please insert a <141> at the beginning of the above "2002-02-26" line; <141> is a mandatory numeric identifier indicating the current filing date.

<210> 8

<211> 56

<212> DNA

<213> E. coli

Please spell out the Genus ("Escherichia") in the above <213> response; per Sequence Rules, show the Genus species in that response. Same response in subsequent sequences.

<210> 20

<211> 34

<212> DNA

<213> Mus musclus

Please change the above <213> response to "Mus musculus".

<210> 21

<211> 36

<212> DNA

<213> HBV

Please spell out the virus in the above <213> response; same in Sequence

22.

<210> 51
<211> 364
<212> DNA
213> Artificial Sequence

<220>
<223> pSnip ribozyme cassette

Please add an opening bracket ("<") to the above <213> numeric identifier. It must be <213>.

****

Application No: 10082973   Version No: 3.0

Input Set:

Output Set:

Started:	2009-05-28 10:39:30.012
Finished:	2009-05-28 10:39:33.620
Elapsed:	0 hr(s) 0 min(s) 3 sec(s) 608 ms
Total Warnings:	45
Total Errors:	2
No. of SeqIDs Defined:	73
Actual SeqID Count:	73

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (1)
W 213	Artificial or Unknown found in <213> in SEQ ID (2)
W 213	Artificial or Unknown found in <213> in SEQ ID (3)
W 213	Artificial or Unknown found in <213> in SEQ ID (4)
W 213	Artificial or Unknown found in <213> in SEQ ID (5)
W 213	Artificial or Unknown found in <213> in SEQ ID (6)
W 213	Artificial or Unknown found in <213> in SEQ ID (7)
W 402	Undefined organism found in <213> in SEQ ID (8)
W 402	Undefined organism found in <213> in SEQ ID (9)
W 402	Undefined organism found in <213> in SEQ ID (10)
W 402	Undefined organism found in <213> in SEQ ID (11)
W 402	Undefined organism found in <213> in SEQ ID (12)
W 402	Undefined organism found in <213> in SEQ ID (15)
W 213	Artificial or Unknown found in <213> in SEQ ID (18)
W 402	Undefined organism found in <213> in SEQ ID (20)
W 402	Undefined organism found in <213> in SEQ ID (21)
W 402	Undefined organism found in <213> in SEQ ID (22)
W 213	Artificial or Unknown found in <213> in SEQ ID (37)
W 213	Artificial or Unknown found in <213> in SEQ ID (38)
W 213	Artificial or Unknown found in <213> in SEQ ID (39)

```
                    Input Set:


                    Output Set:



                     Started:   2009-05-28 10:39:30.012
                    Finished:   2009-05-28 10:39:33.620
                     Elapsed:   0 hr(s) 0 min(s) 3 sec(s) 608 ms
              Total Warnings:   45
                Total Errors:   2
       No. of SeqIDs Defined:   73
          Actual SeqID Count:   73
```

Error code   Error Description

W	213	Artificial or Unknown found in <213> in SEQ ID (40)
W	213	Artificial or Unknown found in <213> in SEQ ID (41)
W	213	Artificial or Unknown found in <213> in SEQ ID (42)
W	213	Artificial or Unknown found in <213> in SEQ ID (43)
W	213	Artificial or Unknown found in <213> in SEQ ID (44)
W	213	Artificial or Unknown found in <213> in SEQ ID (45)
W	213	Artificial or Unknown found in <213> in SEQ ID (46)
W	213	Artificial or Unknown found in <213> in SEQ ID (47)
W	213	Artificial or Unknown found in <213> in SEQ ID (48) This error has occured more than 20 times, will not be displayed
E	249	Order Sequence Error <212> -> <220>; Expected Mandatory Tag: <213> in SEQID (51)
W	402	Undefined organism found in <213> in SEQ ID (54)
W	402	Undefined organism found in <213> in SEQ ID (55)
W	402	Undefined organism found in <213> in SEQ ID (56)
W	402	Undefined organism found in <213> in SEQ ID (57)
W	402	Undefined organism found in <213> in SEQ ID (58)
W	402	Undefined organism found in <213> in SEQ ID (59)
W	402	Undefined organism found in <213> in SEQ ID (60)
W	402	Undefined organism found in <213> in SEQ ID (61)
W	402	Undefined organism found in <213> in SEQ ID (62)
W	402	Undefined organism found in <213> in SEQ ID (63)
W	402	Undefined organism found in <213> in SEQ ID (64) This error has occured more than 20 times, will not be displayed

```
          Input Set:


          Output Set:



            Started:   2009-05-28 10:39:30.012
           Finished:   2009-05-28 10:39:33.620
            Elapsed:   0 hr(s) 0 min(s) 3 sec(s) 608 ms
     Total Warnings:   45
       Total Errors:   2
No. of SeqIDs Defined:  73
  Actual SeqID Count:   73
```

Error code   Error Description

E   250   Structural Validation Error; Sequence listing may not be indexable

<110> Norris, James S.
      Clawson, Gary A.
 Schmidt, Michael G.
 Hoel, Brian D.
 Pan, Wei-Hua
 Dolan, Joseph W.

<120> TISSUE-SPECIFIC AND TARGET RNA-SPECIFIC RIBOZYMES

<130> 14017-0004002

<140> 10/082,973
      2002-02-26

<150> 09/338,942
<151> 1999-06-24

<150> 60/090,560
<151> 1998-06-24

<150> 60/096,502
<151> 1998-08-14

<160> 73

<170> FastSEQ for Windows Version 4.0

<210> 1
<211> 492
<212> DNA
<213> Artificial Sequence

<220>
<223> ARN promoter

<400> 1
 actcgcggat catcttcacc atcggccgca actcctgcgg gatatcctcg tcctcctcct   60
 ccaccggcac ccccatggta gcggccagct cgcgccctgc ctgggaaagc tgtacatgct   120
 gatcggcggc gtcggtgccg gcggccgggt cttccgcctg ctcggcggtg ccggtccgtg   180
 cggccttggc gtccgcggcg gcgcgcgatg agggcggcac ctgggtggtg atccagccac   240
 tgagggtcaa cattccagtc actccgggaa aaatggaatt cttccattgg atcggcccac   300
 gcgtcgcgaa cttgagcccc cttttcgtcg ccccttgaca gggtgcgaca ggtagtcgca   360
 gttgtttgac gcaagtcact gattggaaac gccatcggcc tgtcagaaat ggtcgttgcc   420
 agacctatgg ctggcacccg catcgcggct gcgttaccct tactcctgtt gtgcctttaa   480
 cctagcaagg ac   492

<210> 2
<211> 1113
<212> DNA
<213> Artificial Sequence

<220>
<223> PROC promoter

<400> 2

```
aattcctcga agtccttgcg ctgcttgtcg ttcatgatgt cgtagatcag cgcatgcacc      60
tgcttgtgtt ccagcggtgg caggttgatc cggcgtacat cgccatccac ccggatcatg     120
ggtggcaggc cggcggagag gtgcaggtcc gaagcgccct gtttggcact gaaggcgagc     180
agctcggtaa tatccatggg actccccaat tacaagcaag caggtagaat gccgccaaag     240
ccgccgtctc ggacaaggaa aacaccggat gagccagggt gcttccagga cacgcgtggt     300
gtcctgcgcc agacgcggaa cctcgacact ggaacaggaa gatggccatc gaggccggcg     360
gtttcgaggg cgtcgagccg acgccgaccg cacttccata gggcgcaggt aatgtccacg     420
atagcagaga atattgcaaa ggttgccgcg cgcatccgtg aggcagcgca agctgcgggg     480
cgcgatccgg ccacggtcgg cctgctcgcc gtgagcaaga ccaagcccgc cgccgcggtg     540
cgcgaggcgc acgccgccgg ccttcgcgac ttcggcgaaa actacctgca ggaggccctc     600
ggcaagcagg ccgaactggc cgacctgccc ttgaactggc acttcatcgg ccccatccag     660
tcgaacaaga cgcggcccat cgccgagcat ttccagtggg tgcactcggt ggaccggttg     720
aagatcgcgc agcgcctgtc ggagcaacgc ccggccgggc tgccgcccct gaatgtctgc     780
ctgcaggtca acgtcagcgg cgaagccagc aagtccggct gcgcccccga ggacctgccg     840
gccctggccg aggccgtgaa gcaactgccc aacctccgat tgcgtggcct gatggccatc     900
cccgaaccca ccgccgaacg cgccgcgcaa cacgccgcgt tcgcccgcct gcgcgaactg     960
ctgctggacc tgaaccttgg cctgacaccc ctgtccatgg catgagcga cgacctcgag    1020
gcagccatcg gcgaaggtgc gacctgggtc cgcatcggta ccgccctgtt cggcgcccgc    1080
gactacggcg cgccggcttc ttgaatgaat ccc                                1113
```

<210> 3
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> ARC promoter

<400> 3

```
ctagagctat tgatgtggat caacattgtc cactagccgc tgccgcctaa tctccagaat      60
tgtgag                                                                66
```

<210> 4
<211> 685
<212> DNA
<213> Artificial Sequence

<220>
<223> UPCM2 cassette sequence

<400> 4

```
tcagaaaatt attttaaatt tccaattgac attgtgagcg gataacaata taatgtgtgg      60
aagcttatcg ataccgtcga cctcgaagct ttggaaccct gatgagtccg tgaggacgaa     120
acgatgacat tctgctgacc agattcacgg tcagcagaat gtcatcgtcg gttccaggat     180
ccggctgcta acaaagcccg aaaggaagct gagttggctg ctgccaccgc tgagcaataa     240
ctagcataac cccttggggc ctctaaacgg gtcttgaggg gttttttgct gaaaggagga     300
actatatccg gatatcccgc aagaggcccg gcagtaccgg cataaccaag cctatgccta     360
cagcatccag ggtgacggtg ccgaggatga cgatgagcgc attgttagat ttcatacacg     420
gtgcctgact gcgttagcaa tttaactgtg ataaactacc gcattaaagc ttatcgatga     480
taagctgtca acatgagaa ttcggcgtat acgccgaatt caagggtct gcgcaacgac     540
gacgatgagg taccacatcg tcgtcgttgc gcactgatga ggccgtgagg ccgaaaccct     600
tgacgcgtaa aaaaaacccg ccccggcggg ttttttaccc ttcctatgcg gccgctctag     660
tcgagggggg gccccgctaga actag                                         685
```

<210> 5
<211> 673

<212> DNA
<213> Artificial Sequence

<220>
<223> P2CM2 cassette sequence

<400> 5
```
agaaagcaaa aataaatgct tgacactgta gcgggaaggc gtataatgga attgtgagcg      60
gataacaatt cacaagctta tcgataccgt cgacctcgag ctttggaacc ctgatgagtc     120
cgtgaggacg aaacgatgac attctgctga ccagattcac ggtcagcaga atgtcatcgt     180
cggttccagg atccggctgc taacaaagcc cgaaaggaag ctgagttggc tgctgccacc     240
gctgagcaat aactagcata accccttggg gcctctaaac gggtcttgag gggttttttg     300
ctgaaaggag gaactatatc cggatatccc gcaagaggcc cggcagtacc ggcataacca     360
agcctatgcc tacagcatcc aggtgtacgg tgccgaggat gacgatgagc gcattgttag     420
atttcataca cggtgcctga ctgcgttagc aatttaactg tgataaacta ccgcattaaa     480
gcttatcgat gataagctgt caaacatgag aattcggcgt atacgccgaa tttcaagggt     540
ctgcgcaacg acgacgatga ggtaccacat cgtcgtcgtt gcgcactgat gaggccgtga     600
ggccgaaacc cttgacgcgt aaaaaaaacc cgccccggcg ggttttttac gcgttcctat     660
gcggccgctc tag                                                        673
```

<210> 6
<211> 14
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 6
```
agctcgagct caga                                                        14
```

<210> 7
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 7
```
tcgacggatc tagatcc                                                     17
```

<210> 8
<211> 56
<212> DNA
<213> E. coli

<400> 8
```
agatctaaat cattcacctg atgagtccgt gaggacgaaa ctttagcaaa ccaagg          56
```

<210> 9
<211> 54
<212> DNA
<213> E. coli

<400> 9

agatctaaat tcgtttctga tgagtccgtg aggacgaaac accacaaaag atct   54

<210> 10
<211> 54
<212> DNA
<213> E. coli

<400> 10
agatctaaac cacatcctga tgagtccgtg aggacgaaac agtttaaacc aagg   54

<210> 11
<211> 55
<212> DNA
<213> E. coli

<400> 11
agatctaaac gatttcctga tgagtccgtg aggacgaaac atcaccaaac caagg   55

<210> 12
<211> 56
<212> DNA
<213> E. coli

<400> 12
agatctaaat gcgtctgatg agtccgtgag gacgaaacag gcaggtaaaa ccaagg   56

<210> 13
<211> 53
<212> DNA
<213> Streptomyces lividans

<400> 13
agatctaaag tactcctgat gagtccgtga ggacgaaacc agcgaaacca agg   53

<210> 14
<211> 55
<212> DNA
<213> Enterococcus faecalis

<400> 14
agatctaaaa cttttgctga tgagtccgtg aggacgaaac gtgtataaac caagg   55

<210> 15
<211> 54
<212> DNA
<213> Psudeomonas putida

<400> 15
agatctaaat cgctttctga tgagtccgtg aggacgaaac gtgataaacc aagg   54

<210> 16
<211> 54
<212> DNA
<213> Streptomyces coelicolor

<400> 16
agatctaaag tcgatgctga tgagtccgtg aggacgaaac ttcgcaaacc aagg   54

<210> 17
<211> 56
<212> DNA
<213> Staphylococcus warneri

<400> 17
agatctaaat gcgtctgatg agtccgtgag gacgaaacag gcaggcgaaa ccaagg   56

<210> 18
<211> 38
<212> DNA
<213> Artificial Sequence

<220>
<223> B2 consensus

<400> 18
tgctcttctg atgagtccgt gaggacgaaa ccgcctga   38

<210> 19
<211> 39
<212> DNA
<213> Mus musculus

<400> 19
ttcaaagact gatgagtccg tgaggacgaa acgaggatc   39

<210> 20
<211> 34
<212> DNA
<213> Mus musclus

<400> 20
gtccatctga tgagtccgtg aggacgaaac cggc   34

<210> 21
<211> 36
<212> DNA
<213> HBV

<400> 21
attagagctg atgagtccgt gaggacgaaa caaacg   36

<210> 22
<211> 37
<212> DNA
<213> HPV

<400> 22
gtcctgactg atgagtccgt gaggacgaaa cattgca   37

<210> 23
<211> 44
<212> DNA
<213> Homo sapiens

<400> 23

```
tccgttgtct ctgatgagtc cgtgaggacg aaacatgaca ccga                    44
```

<210> 24
<211> 39
<212> DNA
<213> Homo sapiens

```
<400> 24
 gcgaggagct gatgagtccg tgaggacgaa acatggtgt                          39
```

<210> 25
<211> 37
<212> DNA
<213> Mus musculus

```
<400> 25
 aacttttctg atgagtccgt gaggacgaaa cataatg                            37
```

<210> 26
<211> 42
<212> DNA
<213> Rattus norvegicus

```
<400> 26
 tcgaagctgt ctgatgagtc cgtgaggacg aaaccgcgtt ga                      42
```

<210> 27
<211> 37
<212> DNA
<213> Mus musculus

```
<400> 27
atcagggtct gatgagtccg tgaggacgaa aggtgcc                             37
```

<210> 28
<211> 37
<212> DNA
<213> Rattus norvegicus

```
<400> 28
 tcttcgactg atgagtccgt gaggacgaaa catggct                            37
```

<210> 29
<211> 37
<212> DNA
<213> Homo sapiens

```
<400> 29
 tagcacactg atgagtccgt gaggacgaaa cgtttga                            37
```

<210> 30
<211> 36
<212> DNA
<213> Homo sapiens

```
<400> 30
 tgcaatactg atgagtccgt gaggacgaaa ctgcct                             36
```

```
<210> 31
<211> 36
<212> DNA
<213> Homo sapiens


<400> 31
 aagtcatctg atgagtccgt gaggacgaaa cctgga                              36


<210> 32
<211> 36
<212> DNA
<213> Homo sapiens


<400> 32
 gataaggctg atgagtccgt gaggacgaaa ctttcc                              36


<210> 33
<211> 36
<212> DNA
<213> Homo sapiens


<400> 33
 catattcctg atgagtccgt gaggacgaaa cactcg                              36


<210> 34
<211> 38
<212> DNA
<213> Homo sapiens


<400> 34
 tcatgtatct gatgagtccg tgaggacgaa acaaaagg                            38


<210> 35
<211> 36
<212> DNA
<213> Homo sapiens


<400> 35
 ggttaaactg atgagtccgt gaggacgaaa cttggg                              36


<210> 36
<211> 36
<212> DNA
<213> Homo sapiens


<400> 36
 gtccagtctg atgagtccgt gaggacgaaa cttaag                              36


<210> 37
<211> 55
<212> DNA
<213> Artificial Sequence


<220>
<223> primer
```

<400> 37
cccgggaatt cgtgatggcc acgcggccgc tcgagctctg atgagtccgt gagga   55

<210> 38
<211> 59
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 38
gacgggatcc agatctgagc tcgagctgac ggtaccgggt accgtttcgt cctcacgga   59

<210> 39
<211> 55
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 39
gagctcagat ctggatccgt cgacggatct agatccgtcc tgatgagtcc gtgag   55

<210> 40
<211> 46
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 40
ttgcttggcc agcggccgct gcagatccgt ttcgtcctca cggact   46

<210> 41
<211> 41
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 41
gatctgctct tctgatgagt ccgtgaggac gaaaccgctg a   41

<210> 42
<211> 41
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 42
gatctcagcg gtttcgtcct cacggactca tcagaagagc a   41

<210> 43
<211> 64
<212> DNA
<213> Artificial Sequence

<220>
<223> ribozyme construct

<400> 43
cttggaaccg gatgccaggc atccggttgg tgcctttcgt cctcacggac tcatcagtag   60
tgaa   64

<210> 44
<211> 65
<212> DNA
<213> Artificial Sequence

<220>
<223> ribozyme construct

<400> 44
cttggaaccg gatgccaggc atccggttaa gaagtttcgt cctcacggac tcatcagtta   60
cccta   65

<210> 45
<211> 65
<212> DNA
<213> Artificial Sequence

<220>
<223> ribozyme construct

<400> 45
aattcaaccg gatgccaggc atccggttct caggtttcgt cctcacggac tcatcagaaa   60
atctg   65

<210> 46
<211> 64
<212> DNA
<213> Artificial Sequence

<220>
<223> ribozyme construct

<400> 46
aattcaaccg gatgccaggc atccggtttg gacctttcgt cctcacggac tcatcagagc   60
gtgg   64

<210> 47
<211> 63
<212> DNA
<213> Artificial Sequence

<220>
<223> ribozyme construct

<400> 47

aattcaaccg gatgccaggc atccggttca gcctttcgtc ctcacggact catcagtgtg   60

ttg   63

<210> 48
<211> 64
<212> DNA
<213> Artificial Sequence

<220>
<223> ribozyme construct

<400> 48

aattcaaccg gatgccaggc atccggttaa cctttttcgt cctcacggac tcatcagctc   60

tacg   64

<210> 49
<211> 170
<212> RNA
<213> Artificial Sequence

<220>
<223> pClip triple ribozyme

<221> modified_base
<222> (1)...(170)
<223> n=a, c, g, or u

<400> 49

gcggccgcuc gagcucugau gaguccguga ggacgaaacg guacccggua ccgucagcuc   60

gagaucunnn nnnncugaug aguccgugag gacgaaannn nnagauccgu cgacggaucu   120

agauccgucc ugaugagucc gugaggacga aacggaucug cagcggccgc   170

<210> 50
<211> 249
<212> RNA
<213> Artificial Sequence

<220>
<223> pChop triple ribozyme

<220>
<221> modified_base
<222> (1)...(249)
<223> n=a, c, g, or u

<400> 50

aagcuuugga acccugauga guccgugagg acgaaacgau gacauucugc ugaccagauu 60

cacggucagc agaaugucau cgucgguucc aggauccnnn nnncugauga guccgugagg 120

acgaaannnn nnnnnggaau uccaaggguc ugcgcaacga cgacgaugag guaccacauc 180

gucgucguug cgcacugaug aggccgugag gccgaaaccc uugacgcguu ccuaugcggc 240

cgcucuaga   249

<210> 51
<211> 364
<212> DNA

213> Artificial Sequence

<220>
<223> pSnip ribozyme cassette

<400> 51

```
 aagcttcgag ctctgatgag tccgtgagga cgaaacggta cccggtaccg tcagctcgac      60
 ctcagatctc tcgagcaatt gatccgtcga cggatgtaga tccgtcctga tgagtccgtg     120
 aggacgaaac ggatctgcag cggatatcca gctttggaac cctgatgagt ccgtgaggac     180
 gaaacgatga cattctgctg accagattca cggtcagcag aatgtcatcg tcggttccag     240
 gatccttgcc tgaattccaa gggtctgcgc aacgacgacg atgaggtacc acatcgtcgt     300
 cgttgcgcac tgatgaggcc gtgaggccga aacccttgac gcgttcctat gcggccgctc     360
 taga                                                                   364
```

<210> 52
<211> 685
<212> DNA
<213> Artificial Sequence

<220>
<223> modified pChop cassette

<400> 52

```
tcagaaaatt attttaaatt tccaattgac attgtgagcg gataacaata taatgtgtgg      60
aagcttatcg ataccgtcga cctcgaagct ttggaaccct gatgagtccg tgaggacgaa     120
acgatgacat tctgctgacc agattcacgg tcagcagaat gtcatcgtcg gttccaggat     180
ccggctgcta acaaagcccg aaaggaagct gagttggctg ctgccaccgc tgagcaataa     240
ctagcataac cccttggggc ctctaaacgg gtcttgaggg gttttttgct gaaaggagga     300
actatatccg gatatcccgc aagaggcccg gcagtaccgg cataaccaag cctatgccta     360
cagcatccag ggtgacggtg ccgaggatga cgatgagcgc attgttagat ttcatacacg     420
gtgcctgact gcgttagcaa tttaactgtg ataaactacc gcattaaagc ttatcgatga     480
taagctgtca acatgagaa ttcggcgtat acgccgaatt tcaagggtct gcgcaacgac     540
gacgatgagg taccacatcg tcgtcgttgc gcactgatga ggccgtgagg ccgaaaccct     600
tgacgcgtaa aaaaaacccg ccccggcggg ttttttaccc ttcctatgcg gccgctctag     660
tcgagggggg gcccgctaga actag                                           685
```

<210> 53
<211> 216
<212> DNA
<213> Artificial Sequence

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